|   | Index | f Claims |  |  |  |  |  |  |  |  |  |  |  |
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Applicati n/C ntrol No.

Applicant(s)/Patent under Reexamination

10/684,324

Examiner

Applicant(s)/Patent under Reexamination

ATUCHLIK ET AL.

Terrence R. Till

1744

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| II | Allowed  |  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| + | Restricted                     |

| N | Non-Elect d  |  |  |  |  |  |  |  |
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| _ | Interference |  |  |  |  |  |  |  |

| A | Appeal   |
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|                        | Claim Date          |          |          |          |           | C        | Claim Date   |              |          |          |             |          |          |          |          |          |          |          | aim      | Date     |          |     |                      |            |                 |          |          |          |          |          |          |   |          |
|------------------------|---------------------|----------|----------|----------|-----------|----------|--------------|--------------|----------|----------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----|----------------------|------------|-----------------|----------|----------|----------|----------|----------|----------|---|----------|
| <b>⊢</b> ₩             |                     |          |          |          |           |          |              |              |          | 1 4      |             |          |          |          |          |          |          |          |          |          | ł        | ┝┷  |                      | $\vdash$   |                 |          | -        | المر     | ř        | _        | _        | $\vdash$  |          |
| Final                  | · Original          | 20/2/5   | 5/4/08   |          |           |          |              |              |          |          | Final       | Original |          |          |          |          |          |          |          |          |          |     | Final                | Original   |                 |          |          |          |          |          |          |   |          |
|                        | 1                   | 7        | a        |          |           |          | $oxed{oxed}$ | L            | oxdot    | $\Box$   |             | 51       |          |          |          |          |          |          |          |          |          |     |                      | 101        |                 |          |          |          |          |          |          |   |          |
|                        | 2                   | 1        | =        |          | Γ         | Г        | Г            | Т            | Τ        | П        |             | 52       | Γ        |          |          |          |          |          |          |          |          |     | Г                    | 102        | Γ               |          |          |          |          |          | П        | П   |          |
|                        | 3                   | 1        |          | Г        | Г         | П        | П            | Т            | Т        | П        |             | 53       | T        |          |          |          |          |          | Г        | П        |          |     | $\Box$               | 103        |                 |          |          | Г        |          |          | П        | П   |          |
|                        | 4                   | 7        | ıı       | Г        | Г         | T        |              | Τ            |          | П        |             | 54       |          |          |          |          |          |          |          | П        |          |     |                      | 104        |                 |          |          | П        |          |          | П        | $\Box$  |          |
|                        | 5                   | 1        | п        |          |           | Г        | П            | Т            | Т        | П        |             | 55       | Γ        |          |          | Γ.       |          |          |          | П        |          | ŧ   | $\Box$               | 105        |                 |          |          |          |          |          | П        | П   |          |
|                        | 6                   | 7        | n        |          | Г         | Г        |              | Т            | Т        | П        |             | 56       | Г        |          |          |          | Г        |          |          |          |          |     |                      | 106        |                 |          |          |          |          |          | П        |   |          |
|                        | 7                   | 7        | ı,       | Г        | Π         | Г        |              | T            | Т        | П        |             | 57       | Г        | П        |          |          |          |          |          |          |          |     |                      | 107        |                 |          |          | Г        |          |          | П        |   |          |
|                        | 8                   | 1        |          |          |           |          |              | T            | T        |          |             | 58       |          |          |          |          |          |          |          |          |          |     |                      | 108        |                 |          |          |          |          |          |          |   |          |
|                        | 9                   | 1        | =        |          | Г         | Г        | П            | T            | Т        |          |             | 59       |          |          |          |          |          |          |          |          |          |     |                      | 109        |                 |          |          |          |          |          |          | П   |          |
|                        | 10                  | 7        | Ħ        |          |           |          | Π            |              |          |          |             | 60       |          |          |          |          |          |          |          |          |          |     |                      | 110        |                 |          |          |          |          |          |          |   |          |
|                        | 11                  | 7        | •        |          |           |          |              |              |          |          |             | 61       |          |          |          |          |          |          |          |          |          |     |                      | 111        |                 |          |          |          |          |          |          |   |          |
|                        | 12                  | 7        | u        |          |           |          |              | L            |          |          |             | 62       |          |          |          |          |          |          |          |          |          |     |                      | 112        |                 |          |          |          |          |          |          |   |          |
|                        | 13                  | 7        | ۰        |          |           |          |              |              | $\Box$   | ╚        |             | 63       | 匚        |          |          |          |          |          |          |          |          |     |                      | 113        |                 |          |          |          |          |          |          |   |          |
|                        | 14                  | 7        | u        |          |           |          |              | $oxed{\Box}$ |          |          |             | 64       |          |          |          |          |          |          |          |          |          |     |                      | 114        |                 |          |          |          |          |          |          |   |          |
|                        | 15                  | 7        | =        |          |           | 匚        |              | $\Box$       | L        | Ш        |             | 65       | L        |          |          |          |          |          |          |          |          |     |                      | 115        |                 |          |          |          |          |          |          | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ |          |
|                        | 16                  | 7        | u        |          |           |          |              |              |          |          |             | 66       | 匚        |          |          |          |          |          |          |          |          |     |                      | 116        |                 |          |          |          |          |          |          |   |          |
|                        | 17                  | 7        | u        |          |           | 匚        |              | L            | L        | Ш        |             | 67       | L        |          |          |          | $\Box$   |          |          |          |          |     | L                    | 117        |                 |          |          |          |          |          | Ш        | _]  | ]        |
|                        | 18                  | 7        |          |          |           |          |              |              |          |          |             | 68       | 乚        |          |          |          |          |          |          |          |          |     |                      | 118        |                 |          |          |          |          |          |          |   |          |
|                        | 19                  | 7        | 19       |          |           |          | L            |              |          |          |             | 69       |          |          |          |          |          |          |          |          |          | ١.  |                      | 119        |                 |          |          |          |          |          | Ш        |   |          |
|                        | 20                  | 7        | #        |          | L         |          | L            | ┖            |          | Ш        | <u> </u>    | 70       | ᆫ        | Ш        | Ш        |          | Ш        |          |          | Щ        |          |     |                      | 120        |                 |          |          |          |          |          | Ш        | $\cdot$   |          |
|                        | 21                  | 7        | =        |          | $oxed{L}$ | 乚        | Ш            |              |          |          |             | 71       | L        |          |          |          | Ш        |          |          | Ш        |          |     |                      | 121        |                 |          |          |          |          |          |          |   |          |
|                        | 22                  | 7        | =        | L        | L         | L        | 乚            | ┖            | L        | Ш        |             | 72       | 匚        |          | Ш        | Ш        | Ш        |          |          | Ш        |          |     |                      | 122        |                 |          |          |          |          | Ш        | Ш        | ┙   | _        |
| Ш                      | 23                  | 7        | =        | L        | 匚         | <u> </u> | L            | 1_           | _        | Ц        | <u> </u>    | 73       | ᆫ        | Ц        |          | Ш        | Ш        | Ц        |          | Ш        | Ш        |     |                      | 123        |                 |          |          |          |          |          | Ц        |   |          |
|                        | 24                  | 1        | =        |          | L         | L        | L            | <u> </u>     | L        | Ш        | <u> </u>    | 74       | <u> </u> | Ш        |          |          | Ш        |          |          | Ш        | Ш        | ٠   |                      | 124        |                 | $\Box$   |          | Ш        |          |          | Ц        | _   |          |
|                        | 25                  | 1        | =        | _        | L         | Ļ        | Ļ            | Ļ            | ↓_       | Н        |             | 75       | Щ        | Щ        |          | Ш        | Щ        | Ш        |          | Ш        | Ш        |     | <u> </u>             | 125        | Щ               | $\Box$   |          | Ш        |          | Ш        | $\Box$   | _   | _        |
|                        | 26                  | 7        | •        |          | L         | ļ        | L            | ┞-           | <b>L</b> | Ш        | <u> </u>    | 76       | Щ        | Ш        |          | Ш        | Ш        | Ш        |          |          |          | ٠   |                      | 126        | Ш               |          |          |          |          |          | Ш        | _   | _        |
| Ш                      | 27                  | 1        | 8        |          | <u> </u>  | ┖        | ᆫ            | ┺            | L        | Ш        | <u> </u>    | 77       | L        | Ш        |          |          | Щ        |          |          | Ш        |          |     |                      | 127        | Ш               |          |          | Щ        |          |          | Ц        | _   | _        |
| $\square$              | 28                  | 4        | =        |          | Ŀ         | ㄴ        | L            | L.           | L        | Ш        | <u> </u>    | 78       | Щ        | Ш        |          | Щ        | Ш        | Ш        |          | Ц        | Щ        |     |                      | 128        | Щ               |          |          | Щ        |          |          |          | _   | _        |
|                        | 29                  | 4        | =        |          |           | L        | _            | <u> </u>     | ┖        | Ш        | <u> </u>    | 79       | <u> </u> | Ш        |          |          | Ш        |          | _        | Ц        | Ш        |     | Щ                    | 129        | Ш               | _        |          | Ш        |          |          | Ц        | _   | _        |
| Ш                      | 30                  | 4        | =        |          |           | L        | ᆫ            | 上            | ㄴ        | Ш        | L           | 80       | L        | Ш        | $\Box$   | Щ        | Щ        |          | _        |          | _        |     |                      | 130        |                 | $\Box$   | _        | Ш        |          |          | Ц        | _   | _        |
| $\vdash$               | 31                  | Y        | 1        | ٠        | L         | <u> </u> | ┞-           | ╙            | ┡        | Ш        | <u> </u>    | 81       | <b> </b> | Ш        |          | Ш        | Щ        |          | Щ        | Щ        | Щ        |     | Щ                    | 131        | Ш               |          | _        | Ш        | Щ        | Щ        | $\dashv$ | 4   | _        |
| $\vdash$               | 32                  | 1        | ٥        |          | <u> </u>  | <b>!</b> | 1            | <del> </del> | <b> </b> | Ш        | <u> </u>    | 82       | <u> </u> | Щ        |          | Н        | Щ        | Щ        |          | Н        | $\dashv$ |     | $\vdash$             | 132        | Ш               | -        |          | Щ        |          | Щ        |          | 4   | 4        |
| $\vdash$               | 33                  |          | 1        | _        | <b> </b>  | ⊢        | ⊢-           | -            | ₩        | Н        | <u> </u>    | 83       | $\vdash$ | Н        | $\vdash$ | Н        | Щ        | Щ        | Щ        | Ы        | Н        |     | <u> </u>             | 133        | Ш               |          | -        | Н        |          | Щ        | $\dashv$ |   |          |
| $\vdash$               | 34                  | 1        | 0        | _        | ├         | <b>-</b> | -            |              | $\vdash$ | $\vdash$ | <b>—</b>    | 84       | Н        | Н        |          | <b></b>  | Н        | $\dashv$ |          | $\vdash$ | $\dashv$ | .   | <b></b>              | 134        | Н               |          |          | Н        | $\vdash$ | Н        | $\dashv$ | $\dashv$  | ᅱ        |
| $\vdash \vdash$        | 35                  | 1        | 0        | -        | $\vdash$  | H        | <del> </del> | ╀            | Η.       | Н        |             | 85<br>86 |          | -        |          | $\vdash$ | -        |          |          | $\vdash$ | $\dashv$ |     | $\vdash$             | 135<br>136 |                 | $\dashv$ |          | $\vdash$ | -        | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ |
| $\vdash \vdash$        | 36<br>37            | ∜        | ٥        | _        | $\vdash$  | H        | ⊢            | ┢            | ├-       | H        |             | 87       | Н        | Н        | Н        | Н        | $\vdash$ | _        | $\dashv$ | $\dashv$ | $\dashv$ |     | ⊢⊢                   | 135        | Н               |          | $\dashv$ | Н        | $\vdash$ | $\dashv$ | $\dashv$ | -+  |          |
| <del>  </del>          |                     | _        | 0        | Щ        | ├         | -        | ⊢            | $\vdash$     | $\vdash$ | Н        |             | 88       | $\vdash$ | $\vdash$ | $\dashv$ | $\vdash$ | Н        | -        |          | $\vdash$ | $\dashv$ |     | <del>  </del>        | 138        | H               |          |          | $\vdash$ | $\dashv$ | Н        | -        | ⇥   |          |
| $\vdash$               | 38<br>39            | _        | 0        | Н,       | -         | ┝╌       | $\vdash$     | -            | -        | Н        | -           | 89       | Н        | Н        | $\vdash$ | Н        | Н        | $\dashv$ | $\dashv$ | Н        | $\dashv$ |     | $\vdash \vdash$      | 139        | Н               | +        | -        | $\vdash$ | $\vdash$ | Н        | $\dashv$ | -+  | -        |
| $\vdash$               | <del>39</del><br>40 | $\dashv$ |          | Н        | ⊢         | H        | H            | -            | ┞        | Н        | -           | 90       | $\vdash$ | $\vdash$ | $\dashv$ | $\dashv$ | Н        | $\dashv$ | -        | $\vdash$ | -        | •   | $\vdash\vdash$       | 140        | Н               | $\dashv$ | $\dashv$ | $\vdash$ | $\vdash$ | $\vdash$ | $\dashv$ | ⇥   | $\dashv$ |
| $\vdash$               | 41                  | -        | $\dashv$ | $\dashv$ | Н         | $\vdash$ | $\vdash$     | +            | $\vdash$ | Н        | <b>—</b>    | 91       | $\vdash$ | Н        | $\dashv$ | $\vdash$ | $\vdash$ |          | $\dashv$ | $\dashv$ | $\dashv$ |     | $\vdash$             | 141        | $\vdash$        | $\dashv$ | $\dashv$ |          |          | Н        | $\dashv$ | +   | $\dashv$ |
| <del>  </del>          | 42                  | -        | -        | Н        | -         | $\vdash$ | -            | ╁            | $\vdash$ | H        |             | 92       | -        | Н        | $\dashv$ | -        | Н        | $\dashv$ | -        | $\dashv$ | ┈┤       |     | ┝╼┥                  | 142        | Н               | -        | $\dashv$ | Н        | $\dashv$ | $\dashv$ | -        | ┥   | ⊣        |
| H                      | 43                  | $\dashv$ | -        | $\dashv$ | Η-        | Н        | $\vdash$     | +-           | $\vdash$ | H        | $\vdash$    | 93       | Н        | $\vdash$ |          | -        | Н        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ |     | $\vdash$             | 143        | $\vdash \dashv$ | $\dashv$ | $\dashv$ |          |          | Н        | $\dashv$ | +   | $\dashv$ |
| $\vdash$               | 43                  | -        |          | Н        | H         | H        | $\vdash$     | +-           | $\vdash$ | H        | <b>├</b> ∸┤ | 94       | Н        | Н        | $\dashv$ | $\vdash$ | Н        | $\dashv$ | -        | $\dashv$ | $\dashv$ |     | $\vdash\vdash\vdash$ | 144        | $\vdash$        | -        | $\dashv$ | $\dashv$ | $\dashv$ | Н        | +        | 一   | ᅴ        |
| <del></del>            | 45                  |          |          | $\dashv$ | Н         | Н        | $\vdash$     | +            |          | $\dashv$ | -           | 95       | Н        | $\dashv$ | -        | $\dashv$ | $\vdash$ | $\dashv$ | -        | $\dashv$ | $\dashv$ | . 1 |                      | 145        | $\vdash$        | -1       | $\dashv$ | $\vdash$ | $\dashv$ | $\dashv$ | -        | ┪   | ⊣        |
| $\vdash \dashv$        | 46                  | -        | -        | -        | $\vdash$  | $\vdash$ | $\vdash$     | -            | -        | $\dashv$ | -           | 96       | Н        | $\dashv$ | -        | $\vdash$ | $\vdash$ | ᅱ        | $\dashv$ | $\dashv$ | $\dashv$ |     | $\vdash$             | 146        | $\dashv$        | ┪        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | 1        | ┪   | ᅱ        |
| ┝╾┥                    | 47                  | ┥        | ┥        | -        |           | Н        | ⊢            | $\vdash$     | Н        | H        | $\vdash$    | 97       | Н        | $\vdash$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ |          | $\dashv$ | $\dashv$ |     | -                    | 147        | $\dashv$        | -1       | ᅱ        | $\dashv$ | -        |          | -        | ┰   | ᅱ        |
| $\vdash$               | 48                  | ┥        |          | $\dashv$ | Н         | Н        | H            | ┢            | Н        | $\dashv$ |             | 98       | Н        | $\dashv$ | -        | $\dashv$ |          | -        | $\dashv$ | $\dashv$ | $\neg$   |     | -                    | 148        | $\dashv$        | -        | $\dashv$ |          | -        | -        | 7        | 十   | ー        |
| ⊢                      | 49                  |          | -        | $\dashv$ | Н         | Н        | _            | $\vdash$     | Н        | $\dashv$ |             | 89       | H        | Н        | Н        | $\dashv$ | Н        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ |     |                      | 149        | Н               | -+       | $\dashv$ | -        | -1       | -1       | 7        | $\dashv$  | ᅥ        |
| $\vdash \vdash \vdash$ | 50                  | -        | -1       | _        | Н         | Н        | Н            | -            | Н        | $\dashv$ | $\vdash$    | 100      | Н        | $\dashv$ | ╛        | $\dashv$ | Н        | -1       | -        | -        | $\dashv$ |     | $\vdash$             | 150        | H               | -        | -        | $\dashv$ |          | $\dashv$ | 7        | 一   | ㅓ        |
| ш.                     | ~ ]                 |          | _        |          | لبا       |          |              |              | į        | ئـــــ   |             |          | لب       | لبب      |          |          |          |          |          | $\Box$   | _        |     |                      |            |                 |          |          |          |          |          | _4       | _   | _        |